

6th Annual Institute on Climate and Planets Research and Education Conference:

A Report EMILY MICHAUD AND ELENI PALMOS

More than 200 students, educators, scientists, and parents came to the campus of Columbia University on August 5th, 1999, to learn about NASA's interdisciplinary study of Planet Earth. ICP's annual conference combined elements of professional meetings and seminars with educational forums where instructors shared ideas and techniques.

IN THE MORNING...

JAMES HANSEN, head of NASA's Goddard Institute for Space Studies, inaugurated the conference with a message that ICP is about involving students and educators in the study of earth's climate.

WELCOME

- Carolyn Harris, Director, ICP
- Neville Parker, Principal Investigator, NYC Alliance for Minority Participation
- Lewis Gilbert, Director for Interdisciplinary Programs, Columbia University

INTRODUCTION TO CLIMATE RESEARCH PROJECTS BY GISS SCIENTISTS

- George Tselioudis: Tracks and Clouds in Midlatitude Storms
- Ron Miller: Forcings and Chaos
- Dorothy Peteet: History of New York's Vegetation and Climate
- Jennifer Phillips: Climate Change and NY State Agriculture

- Brian Cairns: Aerosol Variability and Trends
- Elaine Matthews: Global Methane Inventory



Dorothy Peteet leads a team in producing a past and present pollen record for New York City.

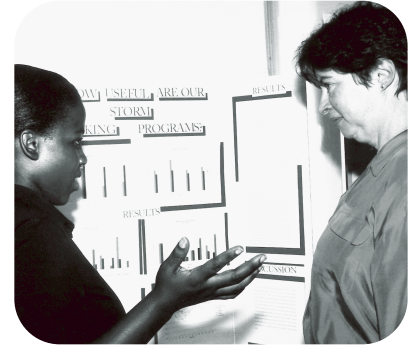
RESEARCH SEMINARS AND STUDENT POSTER SESSION

- 60 students and faculty displayed and defended their summer research done at GISS or at school.

IN THE AFTERNOON...

LUNCHTIME ADDRESS

- Dillard Menchan, Chief of Equal Opportunity Programs at NASA's Goddard Space Flight Center, applauded GISS for committing its scientific resources to make a long-lasting impact on minority students, urban educators, and schools.



Heberthe Dely presenting her research to Emily Michaud.

KEYNOTE ADDRESS

US Astronaut Franklin Chang-Díaz of NASA's Johnson Space Center, spoke on the challenges and rewards inherent in scientific investigations within the context of developing technology for missions to Mars and beyond.



Franklin R. Chang-Díaz, US Astronaut, Lyndon B. Johnson Space Center.

AFTERNOON SPEAKERS

- David Herring, Science Systems & Applications, Inc., presented SSAI College Scholarship Awards totaling \$5000 to three college-bound ICP students.
- Frank Scalzo, CUNY, and Betty Burrell, NYC Urban Systemic Initiative, spoke on using NASA Earth Science Enterprise research to address science standards.

EMILY MICHAUD, NASA, is an administrative officer at the Goddard Institute for Space Studies
ELENI PALMOS, Rutgers University, is an administrative assistant at the Goddard Institute for Space Studies.

DURING THE SUMMER...



Sharika De La Oz, a graduate of R. Philip Randolph High School, receives a \$1500 scholarship towards her studies at Columbia University.

TEACHER EDUCATION WORKSHOPS.

Over 100 teachers (some receiving new teacher credit) and graduate education students enrolled in workshops led by ICP faculty:

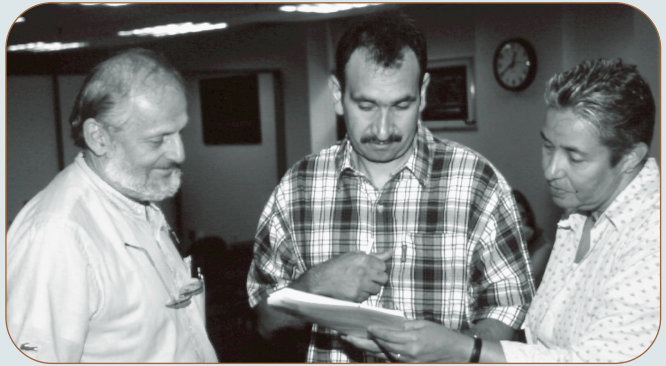
- Learning About Today's Climate from the Past
- Urban Heat Island: Effects on Local and Global Climate
- What's the Meaning of Energy?
- Historical Changes in Methane and Future Predictions
- New York Area Climate Field Investigations
- Aerosols, Radiation, and Climate
- Agriculture and Climate Change
- Ocean Phenomena: Investigating a Climate Anomaly
- New York's Pollen Record



Umit Kenis presenting a lesson on the Urban Heat Island Effect.



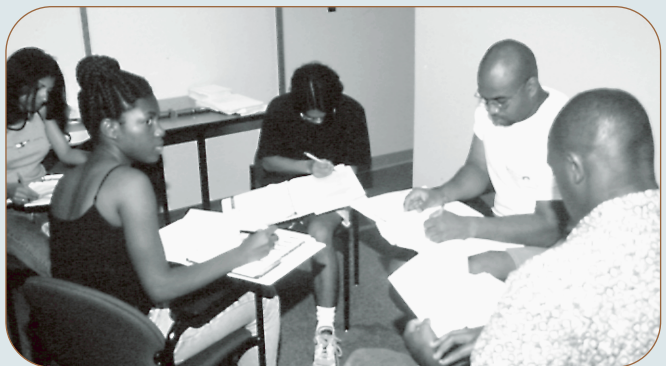
Solving problems with scientists.



Faculty collaboration on curriculum development.



Studying a local ecosystem.



Assessing significance of team research results.